

# 講演会のご案内

## Route Planning and Dangerous Avoidance for Unmanned Surface Vehicle

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場所: KH B131

**ABSTRACT:** Route planning and dangerous avoidance are the key techniques of the unmanned surface vehicle (USV) system. This talk will give an introduction for the configuration of the USV system first. Then, multi-objective-multi-constraints based optimization algorithm and reinforcement learning based investigations will be shown in dealing with the issues of route planning and dangerous avoidance, respectively. Finally, validation experiments will be shown.



### BIOGRAPHY OF RUBO ZHANG

Rubo Zhang is a professor and Dean of College of Mechanical and Electronic Engineering at Dalian Minzu University, Dalian, China. He was previously an associate professor (1997.9-2001.8) and a professor (2001.9-2012.11) at Harbin Engineering University, Harbin, China. He received the PhD degree in control theory and control engineering from Harbin Engineering University in 1999. His research interests mainly include intelligent robot and intelligent control, machine learning and computing intelligence, intelligent information processing, etc.